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NOTICE OF ALLOWANCE AND FEE(S) DUE

30448

7590

07/17/2009

AKERMAN SENTERFITT P.O. BOX 3188 WEST PALM BEACH, FL 33402-3188 EXAMINER

BOSWELL, CHRISTOPHER J

ART UNIT PAPER NUMBER

3673

DATE MAILED: 07/17/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/561,150	09/13/2006	Brian Preddey	6600-27	9117	

TITLE OF INVENTION: ROTARY LOCK AND KEY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/19/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifications.	correspondence including ted below or directed other transfer.	ng the Pat nerwise in	ent, advance o Block 1, by (rders and notification a) specifying a new c	of n orres	pondence address;	/ill be and/or	mailed to the current (b) indicating a sepa	corres rate "I	pondence address as FEE ADDRESS" for
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30448 AKERMAN S P.O. BOX 3188 WEST PALM E			I her State addr trans	eby certify that th	is Fee(s	of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	denos	sited with the United		
										(Depositor's name)
										(Signature)
										(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CON	NFIRMATION NO.
10/561,150 TITLE OF INVENTION	09/13/2006 N: ROTARY LOCK AND) KEY		Brian Preddey				6600-27		9117
APPLN. TYPE	SMALL ENTITY	ISSUI	E FEE DUE	PUBLICATION FEE I	OUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	\top	DATE DUE
nonprovisional	NO		\$1510	\$300		\$0		\$1810	10/19/2009	
EXAM	MINER	AF	RT UNIT	CLASS-SUBCLASS		\neg				
BOSWELL, CH	HRISTOPHER J		3673	070-491000		ı				
"Fee Address" inc PTO/SB/47; Rev 03- Number is required 3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA cless an assignee is ident th in 37 CFR 3.11. Com	" Indication	on form f a Customer PRINTED ON w, no assignee	data will appear on t	rnativesingle or a tattor ll be or type he page an a	rely, e firm (having as a gent) and the nammeys or agents. If printed. e) atent. If an assignassignment.	memb es of up no nam	er a 2	ocume	nt has been filed for
Please check the appropr	riate assignee category or	categorie	s (will not be p	rinted on the patent):		Individual 🗖 Co	orporati	on or other private gro	oup ent	ity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies				 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 						
	atus (from status indicated as SMALL ENTITY statu		CFR 1.27.	☐ b. Applicant is no	o long	ger claiming SMAl	LL ENT	ΓΙΤΥ status. See 37 CI	FR 1.2	7(g)(2).
NOTE: The Issue Fee ar interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will tes Patent	not be accepte and Trademark	d from anyone other the Office.	han tl	ne applicant; a regi	stered a	attorney or agent; or th	ie assig	gnee or other party in
Authorized Signature	·					Date				
Typed or printed name						Registration N	To			
This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22:	nation is required by 37 C titiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DC 313-1450.	CFR 1.311. U.S.C. 12 USPTO. rden, shou ONOT SE	The information 22 and 37 CFR Time will vary ld be sent to the ND FEES OR	on is required to obtain 1.14. This collection is depending upon the le Chief Information COMPLETED FORM	n or reis est indiv Office IS TO	etain a benefit by t imated to take 12 c idual case. Any co r, U.S. Patent and D THIS ADDRESS	he publ minutes mment Traden 5. SENI	ic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner	l by the g gathe ne you artmen for Pat	e USPTO to process) ering, preparing, and require to complete t of Commerce, P.O. ents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/561,150	09/13/2006	Brian Preddey	6600-27	9117		
30448 75	590 07/17/2009		EXAM	INER		
AKERMAN SEN	NTERFITT	BOSWELL, CHRISTOPHER J				
P.O. BOX 3188			ART UNIT	PAPER NUMBER		
WEST PALM BEA	ACH, FL 33402-3188		3673			
			DATE MAILED: 07/17/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 612 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 612 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
As a second second	10/561,150	PREDDEY, BRIAN	
Notice of Allowability	Examiner	Art Unit	
	CHRISTOPHER BOSWELL	3673	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due co	d ourse. THIS
1. This communication is responsive to the preliminary amen	dment filed 6/30/09.		
2. The allowed claim(s) is/are <u>1-56</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" 	e been received. e been received in Application No cuments have been received in this r	national stage application	
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or declara		
5. CORRECTED DRAWINGS (as "replacement sheets") mus		0.40\ - ++	
(a) ☐ including changes required by the Notice of Draftspers	· · · · · · · · · · · · · · · · · · ·	948) attached	
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 		office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			pack) of
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ote the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Pa 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment	/ance
U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)	otice of Allowability	Part of Paper No./Ma	iil Date 20090707

Application/Control Number: 10/561,150 Page 2

Art Unit: 3673

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The claims are allowable over the prior art of record because the teachings of the references taken as a whole do not teach or render obvious the combination set forth, including that of a cylinder lock with a housing (13) with a cylindrical bore, a rotor (17) rotatably mounted in the bore, a plurality of locking bars (16) on the rotor, where each locking bar has a locking bar pin (15) directed radially inward towards the axis of the rotor, and each locking bar is displaceable on the rotor in a direction parallel with the axis and each locking bar is displaceable in a radial direction with respect to the axis, and a combination post (12) arranged along the axis having a plurality of combination holes (20) thereon, where the locking bars are adapted to be displaced by a key in a parallel direction to a position where the locking bar pins are directed towards a combination hole.

The closest prior art of record, U.S. Patent Number 3,404,548 to Keefer, discloses a cylinder lock with a housing (20) with a cylindrical bore, a rotor (21) rotatably mounted in the bore, a plurality of locking bars (23) on the rotor, where each locking bar has a locking bar pin (61) directed radially inward towards the axis of the rotor, and each locking bar is displaceable on the rotor in a direction parallel with the axis and each locking bar is displaceable in a radial direction with respect to the axis. However, Keefer does not have a combination post that is engageable with the locking bar pins.

Other references of record do not disclose tumblers that are movable parallel to the plug, and radially, as well as having a pin that moves radially thereof.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with respect to lock cylinder with tumblers that are movable parallel and/ or radially to the plug:

U.S. Patent Number 7,162,900 to Lu, U.S. Patent Number 7,150,168 to Kuo, U.S. Patent Number 6,718,808 to Yu, U.S. Patent Number 6,644,078 to Hung, U.S. Patent Number 5,402,660 to Osada, U.S. Patent Number 5,351,514 to Recio, U.S. Patent Number 4,622,834 to Hughes, U.S. Patent Number 4,012,931 to Harunari, U.S. Patent Number 3,648,492 to Walters et al., U.S. Patent Application Publication Number 2004/0231379 to Yu.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER BOSWELL whose telephone number is (571)272-7054. The examiner can normally be reached on 9:00 - 4:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Cuomo can be reached on (571) 272-6856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3673

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Peter M. Cuomo/ Supervisory Patent Examiner, Art Unit 3673 Christopher Boswell Examiner Art Unit 3673

CJB /cb/ July 7, 2009